



**PERTINENT ECO-SOLUTIONS, INC.
SAFETY DATA SHEET**

This Safety Data Sheet has been prepared to comply with the US OSHA Hazcom 2024 Standard.

SECTION 1: IDENTIFICATION

Product Identifier:

Trade Name: Crawling Insect Concentrate
SDS Date of Preparation: August 26, 2021; revised April 18, 2025

Recommended use of the chemical and restrictions on use:

Recommended use: Control of pests in animal production houses
Restrictions on use: None known

Details of the Supplier of the Safety Data Sheet:

Manufacturer: Pertinent Eco-Solutions, Inc.
2800 Sumner Boulevard, Suite 136
Raleigh, NC 27616
Information Phone Number: (919) 676-8644

Emergency Telephone Number:

Emergency Spill Information: INFOTRAC: 1-800-535-5053 (North America)
1-352-323-3500 (International)

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health
Flammable Liquid Category 3	Eye Damage Category 1 Skin Irritant Category 2 Skin Sensitization Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (Narcotic effects)

Label Elements:

Danger!



Hazard Phrases

Flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause drowsiness or dizziness.

Precautionary Phrases

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating, or lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing mist, vapors, or sprays.
Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves and eye protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.
In case of fire: Use water fog or spray, alcohol-resistant foam, carbon dioxide or dry chemical to extinguish.
Store in a well-ventilated place. Keep cool.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Isopropanol	67-63-0	20-30
Diatomaceous earth	61790-53-2	5-15
Thyme Oil	8007-46-3	5-15
Geraniol	106-24-1	5-15

The specific identity and/or exact percentage of composition have been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

Description of First Aid Measures:

Eye: Immediately flush eyes thoroughly with large quantities of water for 20 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash the contact area thoroughly with soap and water for several minutes. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

Inhalation: Remove the victim to fresh air. Get medical attention if symptoms of exposure persist.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Keep the victim calm and warm. Get medical attention if symptoms develop.

Most Important symptoms and effects, both acute and delayed: May cause severe eye irritation with possible eye damage. May cause moderate skin irritation. May cause skin sensitization. Inhalation of mists or vapors may cause central nervous system depression.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for eye contact.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use water fog or spray, alcohol-resistant foam, carbon dioxide or dry chemical.

Special Hazards Arising from the Chemical: Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Vapors may form explosive mixtures with air in confined areas. Under fire conditions, oxides of carbon may be released.

Special Equipment and Precautions for Fire-Fighters: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Remove all ignition sources such as open flames and spark producing equipment. Avoid contact with eyes, skin, or clothing. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Avoid breathing mists or vapors. Ventilate area.

Methods and Material for Containment and Cleaning Up:

Cover with an inert absorbent material and collect into an appropriate container for disposal. Report spills and releases as required to appropriate authorities.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing mists or vapors. Use with adequate ventilation. Avoid contact with the eyes, skin, and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash hands thoroughly after handling. Do not eat, drink, or smoke in the work area. Keep product away from heat, sparks, flames, and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

Conditions for Safe Storage, Including any Incompatibilities: Store in a container in a cool, dry, well-ventilated location away from oxidizers and incompatible materials. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA OSHA PEL
Diatomaceous earth (as silica, amorphous diatomaceous earth, uncalcined)	20 mppcf OSHA PEL
Thyme Oil	None Established
Geraniol	None Established

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

Personal Protective Equipment:

Respiratory Protection: In operations where the occupational exposure limits are exceeded, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves are recommended to prevent skin contact. Contact your glove supplier for selection assistance.

Eye Protection: Chemical safety goggles should be worn to prevent eye contact.

Other Protective Equipment: Impervious clothing is required to prevent skin contact and contamination of personal clothing. An eye wash facility and safety shower should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Vapor Pressure: No data available
Color: Brown	Relative Vapor Density (air = 1): No data available
Odor: Characteristic odor	Density/Relative Density: No data available
pH: No data available	Solubility: No data available
Melting Point/Freezing Point: -88°C (-126.4°F) (Isopropyl alcohol)	Partition Coefficient (n-octanol/water): No data available
Boiling Point/Range: 82°C (179.6°F) (Isopropyl alcohol)	Auto-ignition Temperature: 399°C (750.2°F) (Isopropyl alcohol)
Flash Point: 31.8°C (89.24°F) (CC)	Decomposition Temperature: No data available
Flammability: Flammable liquid	Kinematic Viscosity: No data available
Flammable Limits: LEL: 2 vol % (Isopropyl alcohol) UEL: 13 vol % (Isopropyl alcohol)	Particle Characteristics: No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Keep away from heat, sparks, flames, and other sources of ignition.

Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, and hydrofluoric acid.

Hazardous Decomposition Products: Thermal decomposition will produce oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye: May cause severe eye irritation and possible eye damage.

Skin: May cause moderate skin irritation. May cause an allergic skin reaction (sensitization).

Inhalation: Inhalation of mists or vapors may cause nose and upper respiratory tract irritation and central nervous system depression. Symptoms of central nervous system depression include headache, dizziness, drowsiness, nausea, and unconsciousness.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic Hazards: None known

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, and NTP.

Acute Toxicity Values:

Product ATE: >2000 mg/kg (oral)

Isopropyl alcohol: Oral rat LD50- 5840 mg/kg, Skin rabbit LD50- 16400 mg/kg, Inhalation rat LC50- 72.6 mg/L/4hr

Diatomaceous earth: Not toxic

Thyme Oil: Oral rat LD50- 919.118 mg/kg

Geraniol: Oral rat LD50- 3600 mg/kg, Skin rabbit LD50- >5000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Isopropyl alcohol: 96 hr LC50 Fathead minnow (flow through)-9640 mg/L, 48 hr EC50 Daphnia magna- 13299 mg/L

Thyme Oil: 96 hr LC50 Fathead minnow- 3.2 mg/L, 48 hr LC50 Daphnia magna- 3.2 mg/L, 72 hr NOEC Algae- 1.9 mg/L, 21 days NEOC Daphnia magna- 2.0 mg/L

Geraniol: 96 hr LC50 Danio rerio- 22 mg/L, 48 hr EC50 Daphnia magna- 10.8 mg/L, 72 hr EC50 Desmodesmus subspicatus- 13.1 mg/L

This product is classified as harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and Degradability: Isopropyl alcohol, Geraniol, and Thyme oil are readily biodegradable.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS



Dispose in accordance with all local, state, and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	Not applicable
IMDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	Not applicable
IATA/ICAO	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	Not applicable

Transport in Bulk according to IMO instruments: Not applicable

Special Precautions for User: Not applicable

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: See OSHA Hazard Classification in Section 2.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All the ingredients of this product are listed on the TSCA inventory or exempt.

SECTION 16: OTHER INFORMATION

Date of Current Revision: April 18, 2025

Revision Summary: Updated Section 2, 3, 4, 11, and 12.

Date of Previous Revision: August 26, 2021

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Pertinent Eco-Solutions, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.